Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-30-11** **Date: 02-08-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to main and cross roads at Babanna Layout back side area chikkasandra in Ward No. 12 Shettyhalli sub division.
Agency	:	Technical Manager (West), KRIDL,Project Implementation Unit, No.580, Sree Shivakumara Swamy Nilaya, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore- 560010
Customer's Reference	:	BBMP/EE/DD/WO/157/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-18
Sample ID No	:	2018-07-30-11 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-07-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	297.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	0.285	Not specified
5	Initial Setting time (minutes)	175 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-30-11** **Date: 02-08-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address	:	Shettyhalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to main and cross roads at Babanna Layout back side area chikkasandra in Ward No. 12 Shettyhalli sub division.
Agency	:	Technical Manager (West), KRIDL,Project Implementation Unit, No.580, Sree Shivakumara Swamy Nilaya, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore- 560010
Customer's Reference	:	BBMP/EE/DD/WO/157/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	30-07-18
Sample ID No	:	2018-07-30-11 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1173	1173	7.8	92.2	90-100
3	20 mm	5824	6997	46.6	53.4	30-70
4	10 mm	4729	11726	78.2	21.8	10-35
5	4.75 mm	2546	14272	95.1	4.9	0-5
6	Pan	728	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-30-11** **Date: 02-08-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address	:	Shettyhalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to main and cross roads at Babanna Layout back side area chikkasandra in Ward No. 12 Shettyhalli sub division.
Agency	:	Technical Manager (West), KRIDL,Project Implementation Unit, No.580, Sree Shivakumara Swamy Nilaya, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore- 560010
Customer Reference	:	BBMP/EE/DD/WO/157/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-18
Sample ID No	:	2018-07-30-11 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 12.5MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-30-11** **Date: 02-08-18**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore

Address : Shettyhalli Sub Division, BBMP, Bangalore

Project Name : Improvements to main and cross roads at Babanna Layout back side area chikkasandra in Ward No. 12 Shettyhalli sub division.

Agency : Technical Manager (West), KRIDL,Project Implementation Unit, No.580, Sree Shivakumara Swamy Nilaya, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore- 560010

Customer's Reference : BBMP/EE/DD/WO/157/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-07-18

Sample ID No : 2018-07-30-11 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 30-07-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	22	22	2.2	97.8	90-100	90-100	90-100	95-100
3	2.36 mm	135	157	15.7	84.3	60-95	75-100	85-100	95-100
4	1.18 mm	187	344	34.4	65.6	30-70	55-90	75-100	90-100
5	600 micron	207	551	55.1	44.9	15-34	35-59	60-79	80-100
6	300 micron	248	799	79.9	20.1	5-20	8-30	12-40	15-50
7	150 micron	105	904	90.4	9.6	0-10	0-10	0-10	0-15
8	Pan	96	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-07-30-11** **Date: 01-08-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address	:	Shettyhalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to main and cross roads at Babanna Layout back side area chikkasandra in Ward No. 12 Shettyhalli sub division.
Agency	:	Technical Manager (West), KRIDL,Project Implementation Unit, No.580, Sree Shivakumara Swamy Nilaya, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore- 560010
Customer's Reference	:	BBMP/EE/DD/WO/157/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-07-18
Sample ID No	:	2018-07-30-11 /05
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	31-07-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.394	545	674	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	570	686	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	580	692	19.0%	Satisfactory	Satisfactory

Note:

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/08/2018

Lab ID	:	CP-2018-08-06-08
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address	:	Shettyhalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to main and cross roads at Babanna Layout back side area chikkasandra in Ward No. 12 Shettyhalli sub division.
Agency	:	Technical Manager (West), KRIDL,Project Implementation Unit, No.580, Sree Shivakumara Swamy Nilaya, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore- 560010
Customer's Reference	:	BBMP/EE/DD/WO/157/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-18
Sample ID No	:	2018-08-06-08 /01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test	:	10/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	03/08/2018	10/08/2018	151.09 X 149.26 X 149.52	22552	8.448	413.2	18.3	18.6
2	M20 Concrete	M20	03/08/2018	10/08/2018	150.62 X 151.52 X 150.77	22823	8.287	423.1	18.5	
3	M20 Concrete	M20	03/08/2018	10/08/2018	151.39 X 150.83 X 149.64	22835	8.160	430.0	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-06-08** **Date: 10/08/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore

Address : Shettyhalli Sub Division, BBMP, Bangalore

Project Name : Improvements to main and cross roads at Babanna Layout back side area chikkasandra in Ward No. 12 Shettyhalli sub division.

Agency : Technical Manager (West), KRIDL,Project Implementation Unit, No.580, Sree Shivakumara Swamy Nilaya, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore- 560010

Customer's Reference : BBMP/EE/DD/WO/157/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-18

Sample ID No : 2018-08-06-08 /03

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	03/08/2018	10/08/2018	149.34 X 150.88 X 151.50	22532	8.417	426.2	18.9	18.4
2	M20 Concrete	M20	03/08/2018	10/08/2018	150.68 X 149.62 X 151.60	22546	8.167	410.4	18.2	
3	M20 Concrete	M20	03/08/2018	10/08/2018	149.89 X 150.82 X 150.65	22606	8.069	412.0	18.2	

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